

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number
WO 2005/081134 A1

(51) International Patent Classification⁷: **G06F 17/30**

3, CH-5033 BUCHS/AG (CH). **WERNER, Thomas**
[DE/CH]; Im Ergel 1 0, PF76, CH-5404 Baden (CH).

(21) International Application Number:
PCT/SE2005/000222

(74) Agent: **ABB AB**; Legal & Compliance/Intellectual Prop-
erty, S-72178 Västerås (SE).

(22) International Filing Date: 18 February 2005 (18.02.2005)

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/545,924 20 February 2004 (20.02.2004) US

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): **ABB
TECHNOLOGY LTD** [CH/CH]; Affolternstrasse 44,
CH-8050 Zürich (CH).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **SANDE, Gorm**
[NO/NO]; Juterudåsen 42 A, N-1341 SLEPENDEN
(NO). **BUGGE, Jan** [NO/NO]; Måneveien 9, N-1337
SANDVIKA (NO). **GUNDERSEN, Lars** [NO/NO];
Nonnegata 17, N-0656 OSLO (NO). **VATLAND, Svein**
[NO/NO]; Bugårdsgata 13, N-3208 SANDEFJORD (NO).
LUND, Tormod [NO/NO]; Edvard Griegs Allé 7, N-0479
OSLO (NO). **SVENSSON, Erik** [SE/CH]; Rigmstrasse
28, CH-8006 ZÜRICH (CH). **JULIAN, Danny** [US/US];
7021 Landingham Drive, Willow Spring, North Carolina
27592 (US). **VETTER, Claus** [DE/CH]; Lindenweg

Published:
— with international search report

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: METHOD, COMPUTER BASED-SYSTEM AND VIRTUAL ASSET REGISTER

(57) Abstract: The invention is a method and computer-based system for retrieving, accessing and storing data otherwise stored in a plurality of IT systems arranged for operating a part of one or more electrical power networks. The method and computer-based system provide integration of otherwise separate systems such as GIS, SCADA, ERP and/or CMMS. The integration includes an XML/CIM layer for data exchange and a virtual asset register containing references to objects representing assets in the power networks. In other aspects of the invention a method, a human-machine interface and a computer program for carrying out the method are described.

WO 2005/081134 A1